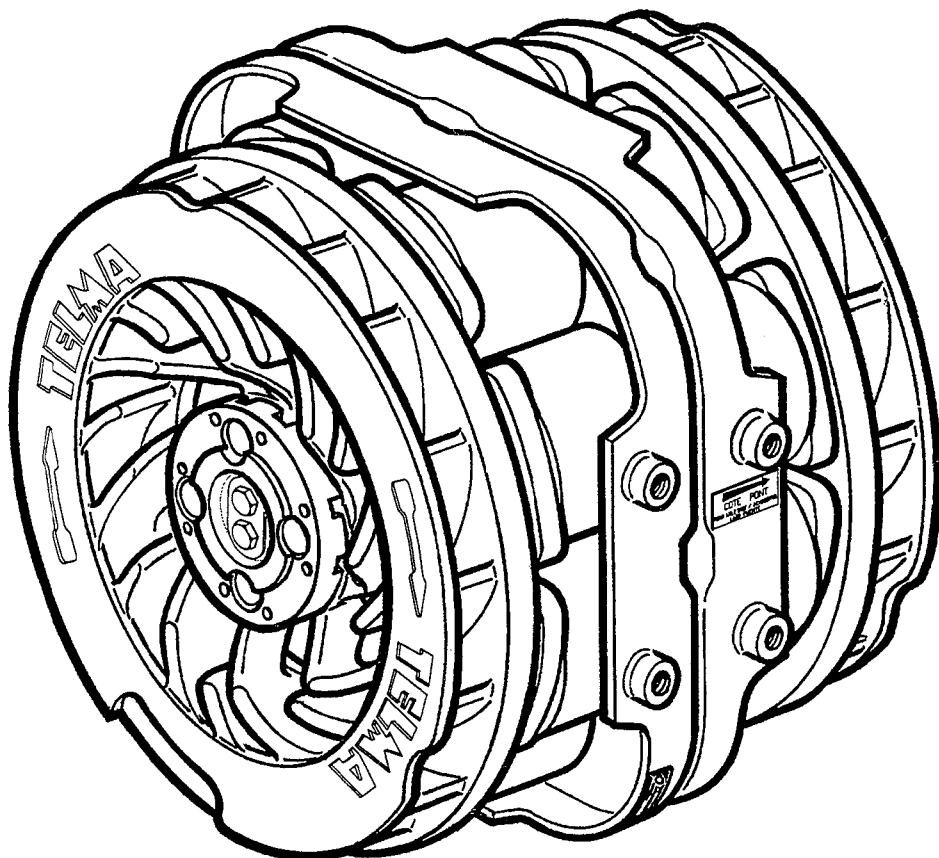




**SPARE PARTS CATALOGUE
OF
C AND CC SERIES RETARDERS**



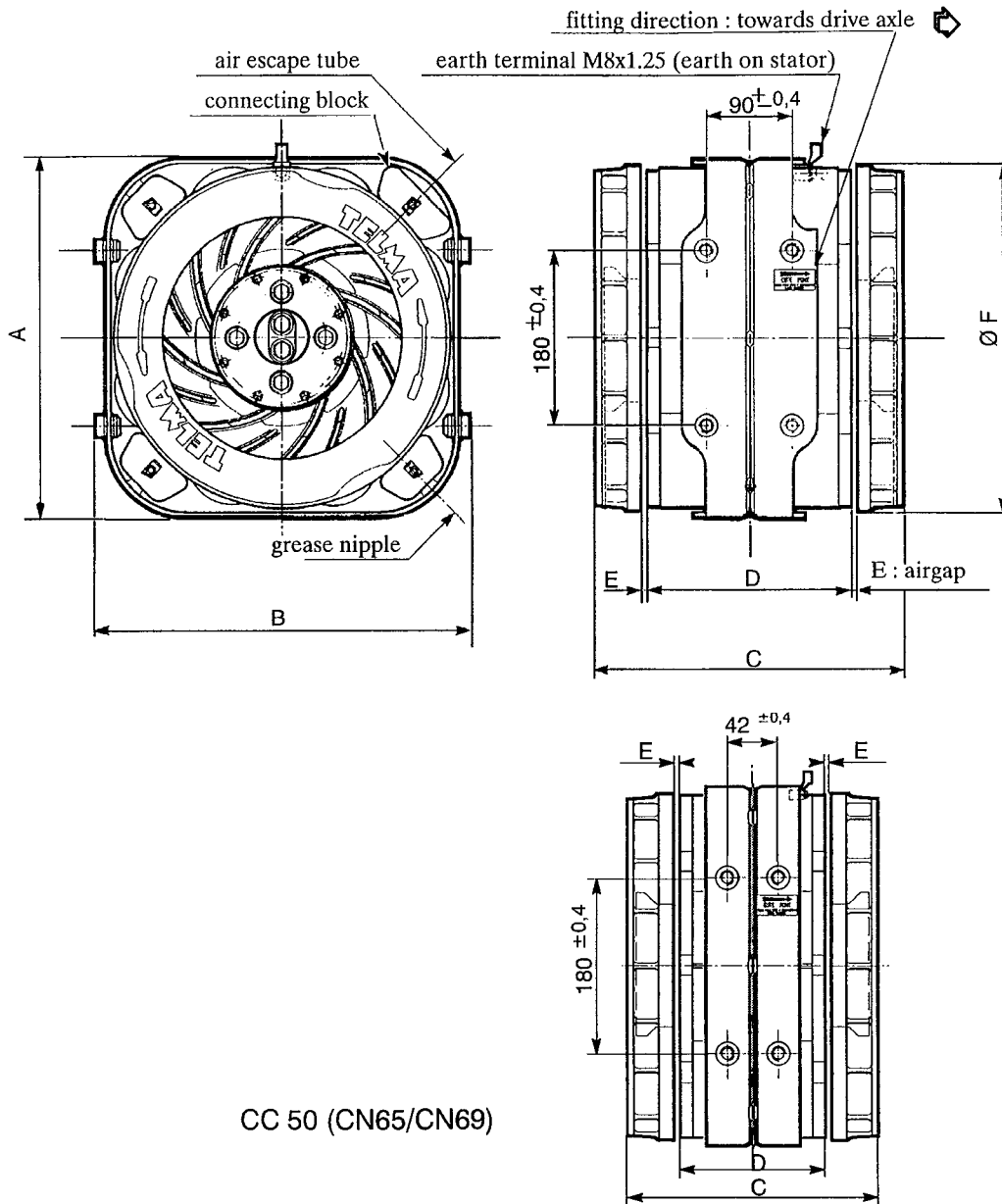
Technical specifications of the C and CC series retarders

RETARDER MODEL		CC 50	CC 65 CC 80	CC 100	CC 125		CC 135 CC 160	CC 200	CC 220 CC 250	CC 270	C8770	CC 300	
RETARDER CODE		CN 65 * CN 69 **	CN CP	CM	CE 64 CE 72	CE71	CE CF	CH	CR CS	CZ	CU	CT	
MAXIMUM BRAKING TORQUE	Nm / lb-ft	500/ 368	650 / 479 800 / 589	1000/737	1250/921	1250/921	1350 / 995 1600 / 1179	2000/ 1474	2200 / 1621 2500 / 1842	2700/1990	2700/1990	3000/ 2211	
TOTAL MASS	kg lb	95 209	134 295	153 337	172 379	192 423	229 505	278 613	333 733	344 757	333 733	383 844	
Stator mass	kg lb	63 139	100 220	119 262	122 269	142 313	162 357	194 428	247 544	258 568	247 544	297 655	
Rotors mass (with flanges)	kg lb	32 70	34 75	34 75	50 110	50 110	67 148	84 185	86 189	86 189	86 189	86 189	
MAXIMUM BEARING R.P.M.	min ⁻¹	4500	4500	4500	4000	4000	4000	4000	3500	3500	3500	3500	
AIR-GAP	⁰ -0.15 mm / ⁰ -.006 inch	mm/inch	0.8 / .031	1.5 / .059 0.8 / .031	0.8 / .031	1.0 / .039	1.0 / .039	1.9 / .075 1.2 / .047	1.2 / .047	1.6 / .062 1.2 / .047	1.2 / .047	1.2 .047	1.5 .059
RESISTANCE PER STAGE ± 5% at 20 °C (68 °F)											stage 1	stages 2,3,4	
12 V	Ω	0.4	0.3	0.27	0.24	0.4	0.19	0.19	0.18	0.15	0.18	0.18	0.15
24 V	Ω	1.6	1.19	1.08	0.97	1.6	0.75	0.75	0.70	0.60	0.70	0.70	0.60
RESISTANCE PER COIL	Ω	1.6* 0.4**	1.19	1.08	0.97	1.6	0.75	0.75	0.70	0.60	0.70	0.70	0.60
AMPERAGE PER STAGE ± 5% at 20 °C (68 °F)													
12 V	A	30.2	40	45.6	48.8	30	63	63.6	67.6	80	67.6	67.6	80
24 V	A	15.1	20	22.8	24.4	15	31.5	31.8	33.8	40	33.8	33.8	40
INSULATION RESISTANCE ≥ (Retarder dry)	M Ω	1	1	1	1	1	1	1	1	1	1	1	1

* up to retarder n° CO85036

** from retarder n° CO85037

Identification of the retarders by their dimensions (mm)



RETARDER	CODE	A	B	C	D	E	Ø F
CC 50	CN 65 ... CN 69 ...	363	383	220	124	0.8	352
CC 65	CB ...	363	383	315	213.5	1.5	352
CC 65	CN ...	363	383	321	219.5	1.5	352
CC 80	CD ...	363	383	315	213.5	0.8	352
CC 80	CP ...	363	383	321	219.5	0.8	352
CC 100	CM ...	363	383	321	219.5	0.8	352
CC 125	CE 64 ... CE 71 ... CE 72 ...	470	496	266	154	1	424
CC 135	CE ...	470	496	358	220	1.9	446
CC 160	CF ...	470	496	358	220	1.2	446
CC 170	CG ...	495	519	383	239	1.9	480
CC 200	CH ...	495	519	383	239	1.2	480
CC 220	CV ...	530	554	388	280.2	1.6	500
CC 220	CJ ... CR ...	530	554	422	280.2	1.6	500
CC 250	CX ...	530	554	388	280.2	1.2	500
CC 250	CK ... CS ...	530	554	422	280.2	1.2	500
CC 270	CZ ...	530	554	422	280.2	1.2	500
C8770	CU ...	530	554	422	280.2	1.2	500
CC 300	CY ...	530	554	388	280.2	1.2	500
CC 300	CL ... CT ...	530	554	422	280.2	1.5	500

Identification of the coupling flanges by their dimensions

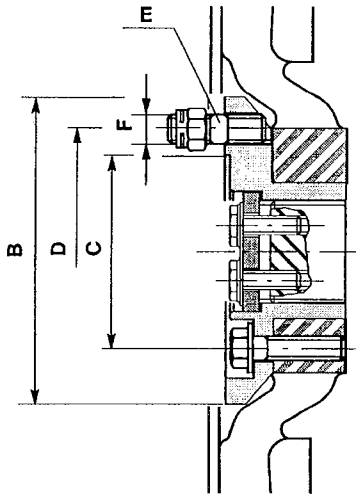


Fig. I

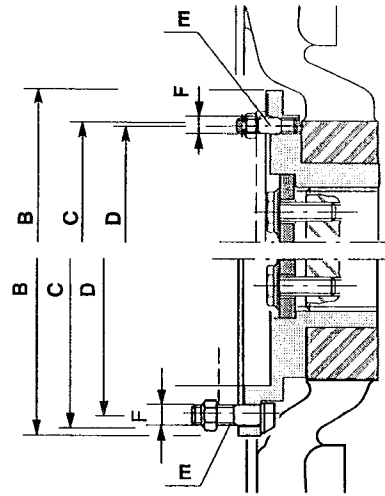


Fig. II

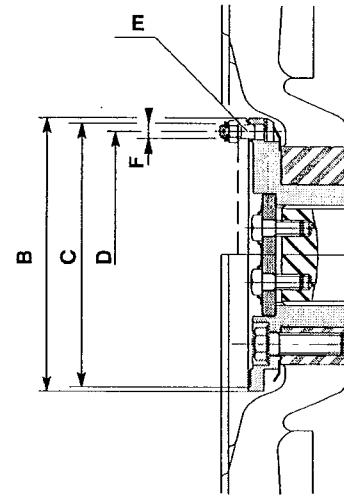


Fig. III

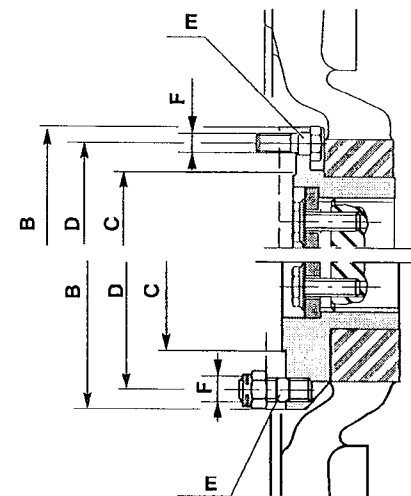


Fig. IV

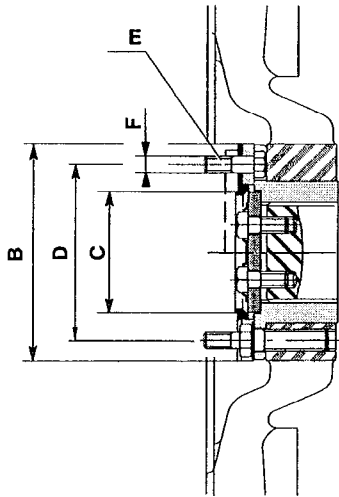


Fig. V

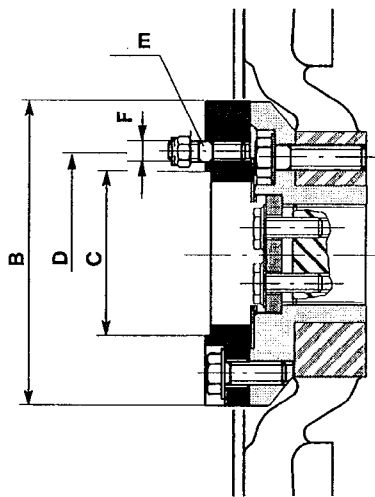


Fig. VI

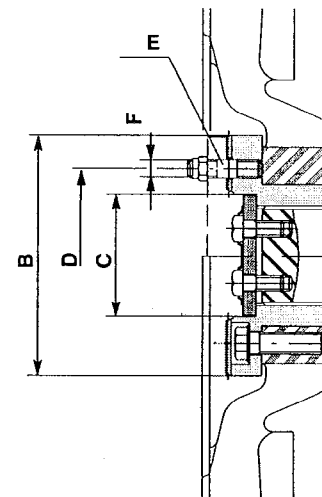


Fig. VII

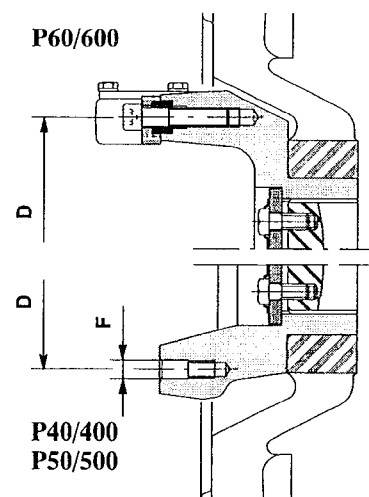


Fig. VIII

Indexes, designation and dimensions for identification of the coupling flanges

Index	Designation	Fig.	B	C	D	E	F
103	SAE 1300, metric fasteners	I	130/151*	60.32	79.37	4	10
104	SAE 1400, metric fasteners	I	130/151*	69.85	95.25	4	12
105	SAE 1500, metric fasteners	I	151	95.25	120.67	4	14
106	SAE 1600, metric fasteners	II	174.6/203.2*	168.22	155.52	8	10
107	SAE 1700, metric fasteners	III	203.2	196.85	184.12	8	10
108	SAE 1800, metric fasteners	III	203.2	196.85	184.12	12	11
110**	SAE 1800, metric fasteners	III	203.2	196.85	184.12	12	11
117	DIN Ø 150	IV/V	150	90	130	8	12
118	DIN Ø 150	IV	150	90	130	12	12
120	DIN Ø 180	IV	180	110	155.52	8	14
123	Mercedes-Benz Ø 120	VI	150	82.56	101.60	6	10
124	Mercedes-Benz Ø 130	I	130	82.56	112	8	10
128	Cross-serration Ø 120	VII	{ 150 (CC65 to CC100)* 165 (CC135/CC160)*		100	4	10
129	Cross-serration Ø 150	VII	{ 150 (CC65 to CC100) 165 (CC135/CC160)* 180 (CC200 to CC300)*		130	4	12
134	DIN Ø 120	IV	130	75	101.50	8	10
136	SCANIA P40/P400	VIII			131.9x85	4	12
137	SCANIA P50/P500	VIII			125.7x95	4	12
138	Cross-serration Ø 180	VII	180		150	4	14
139	DIN Ø 180	IV	180	110	155.52	8	16
140	DIN Ø 180	IV	180	110	155.52	10	16
141	DIN Ø 165	IV	165	95	140	8	16

* New common flange (see Technical Information n° 05/92).

** **Index 110 :**

Similar to index 108, but rear propshaft securing is offset by 45°, anti-clockwise, in relation to front propshaft.

*** **Index 169 :**

The straps are machined together with the yoke, they cannot be replaced separately.

Index	Designation	Fig.	B	C	D	E	F
145	SAE 1700 R reinforced	III	203.2	196.85	184.12	12	10
148	MECHANICS 8 C	}	(not available)				
149	MECHANICS 9 C						
150	MECHANICS 8,5 C						
151	SAE 1300, non metric	I	130/151*	60.32	79.37	4	9.52
152	SAE 1700, non metric	III	203.2	196.85	184.12	8	9.52
153	SAE 1700, special	III	203.2	196.85	184.12	16	9.52
	non metric fasteners						
154	SAE 1350/1410, non metric	I	130/151*	69.85	95.25	4	11.1
155	SAE 1480/1550, non metric	I	151	95.25	120.67	4	12.7
156	MECHANICS 7 C	}	(not available)				
157	SAE 1760/1810, non metric						
158	SAE 1550/1610,	II	174.6/203.2*	168.22	155.52	8	9.52
169***	SCANIA P60/600	VIII			162x111	4	14

Dimensions (mm)

B = external diameter of the retarder coupling flange

C = centering diameter

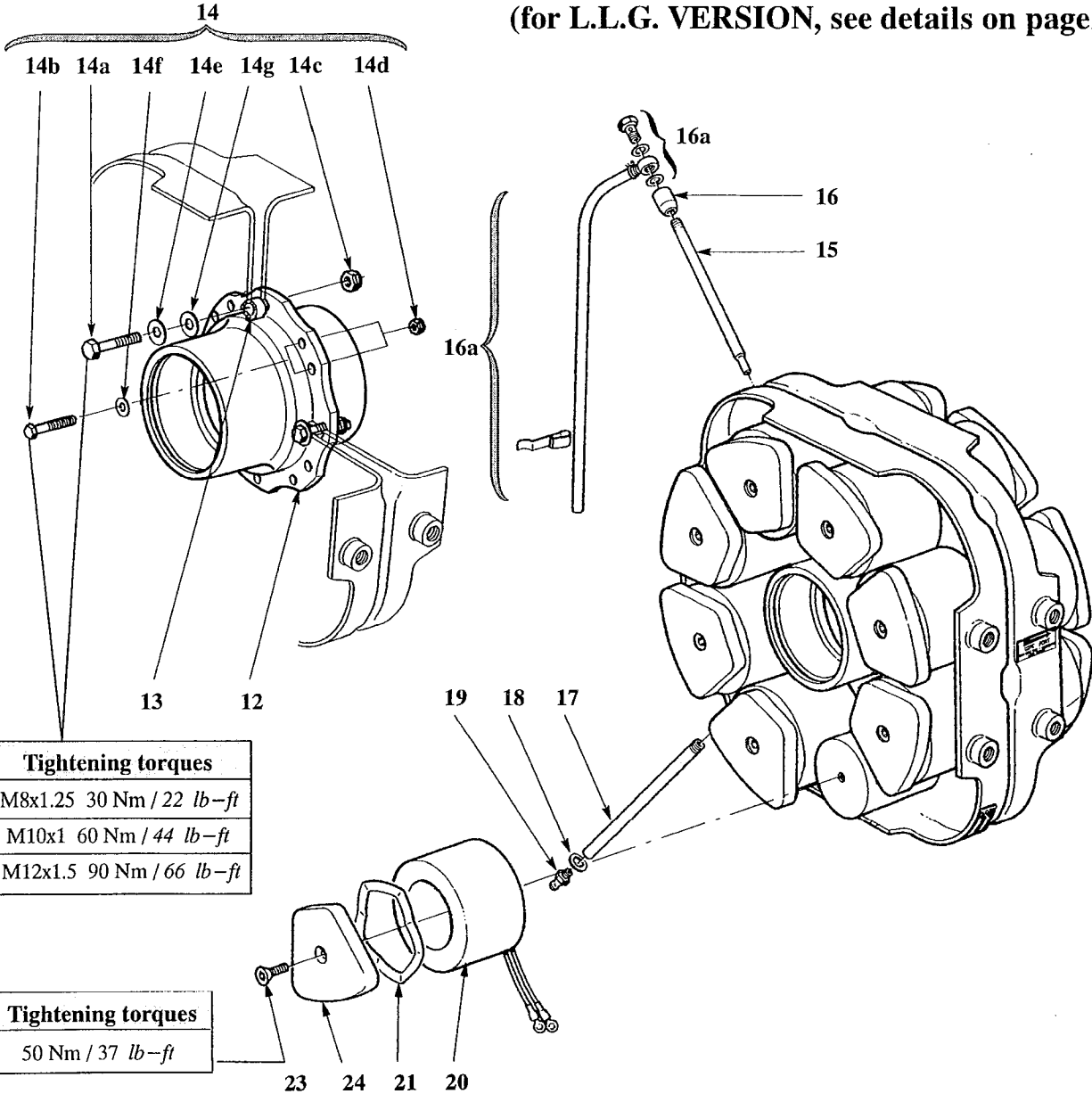
D = drilling diameter (P.C.D.) or distance between fasteners

E = number of securing screws or holes

F = diameter of securing screws or studs

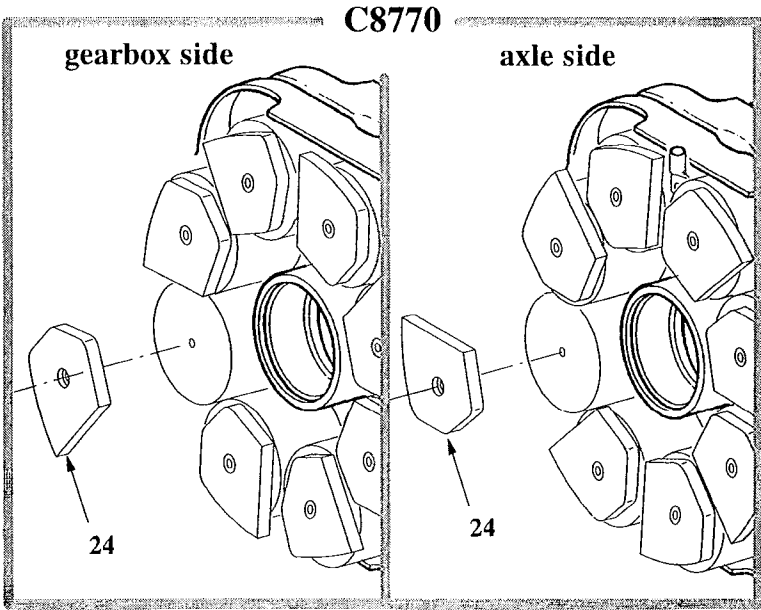
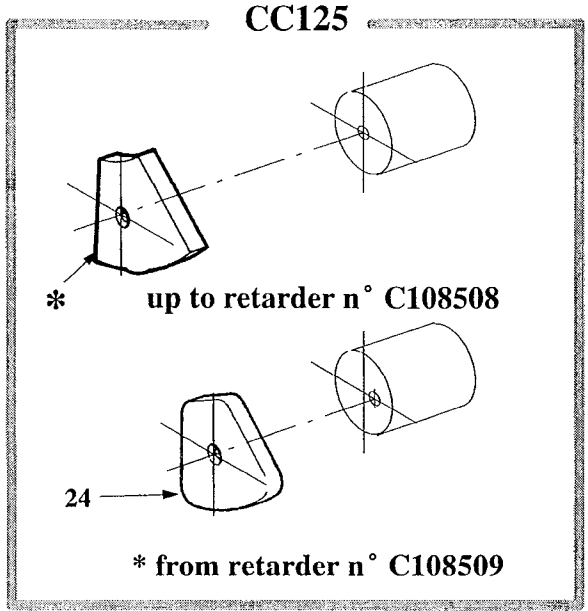
Stator assembly (standard version)

(for L.L.G. VERSION, see details on pages 21 to 23)



Tightening torques	
M8x1.25	30 Nm / 22 lb-ft
M10x1	60 Nm / 44 lb-ft
M12x1.5	90 Nm / 66 lb-ft

Tightening torques	
50 Nm	37 lb-ft



*** Caution :** The pole shoes of the CC 125 retarder were offset with regard to the pole, up to retarder serial n° C108508. For this kind of pole shoes consult our Technical Department.

RETARDER TYPE		CC 50		CC 65 CC 80	CC 100	CC 125		CC 135 CC 160	CC 200	CC 220 CC 250	CC 270	C8770	CC 300	
		CODE	CN 65.	CN 69.	CN ... CP ...	CM ...	CE 64. CE 72.	CE 71.	CE ... CF ...	CH ...	CR ... CS ...	CZ ...	CU ...	CT ...
Item	DESIGNATION	Qty	PART NUMBERS											
	STATOR ASSEMBLY WITHOUT SHAFT (earth on stator) : 12 V 24 V including :	1	not available	VB 106 878 VB 106 880	VB 103 150 VB 103 160	VB 103 190 VB 103 200	VB 107 006 VB 107 008	VB 107 395 VB 107 396	VB 101 590 VB 101 600	VB 101 610 VB 101 620	VB 106 340 replaced by VB107529 (C8770)	VB 106 897 VB 107 529	VB 107 528 VB 107 529	VB 106 520 VB 106 530
			NOT AVAILABLE											
12	Hub	1												
13	Set of 12 spacers for hub	1	VB 201 850	VB 201 850	VB 201 850	VB 201 850	VB 201 860	VB 201 860	VB 201 860	VB 201 860	VB 201 870	VB 201 870	VB 201 870	VB 201 870
14	Set of hub securing fasteners, including, according to retarder type :	1	VB 200 130	VB 200 130	VB 200 130	VB 200 130	VB 200 140	VB 200 140	VB 200 140	VB 200 140	VB 201 840	VB 201 840	VB 201 840	VB 201 840
	14a – 14b – 14c – 14d – 14e – 14f : CC50/65/80/100 14a – 14c – 14e : CC125/135/160/170/200 14a – 14c – 14e – 14g : CC220/250/270/300													
15	Air escape tube	1	VB 500 320	VB 500 320	VB 500 320	VB 500 320	VB 500 330	VB 500 330	VB 500 330	VB 500 340	VB 512 520	VB 512 520	VB 512 520	VB 512 520
16	Threaded bush	1	VB 501 150	VB 501 150	VB 501 150	VB 501 150	VB 501 150	VB 501 150	VB 501 150	VB 501 150	VB 501 150	VB 501 150	VB 501 150	VB 501 150
16a	Set air escape tube extension (option)	1	JZ 100 110	JZ 100 110	JZ 100 110	JZ 100 110	JZ 100 110	JZ 100 110	JZ 100 110	JZ 100 110	JZ 100 110	JZ 100 110	JZ 100 110	JZ 100 110
17	Lubricating tube	1	VB 500 220	VB 500 220	VB 500 220	VB 500 220	VB 500 260	VB 500 260	VB 500 260	VB 500 250	VB 512 510	VB 512 510	VB 512 510	VB 512 510
18	Flat washer	1	VF 200 100	VF 200 100	VF 200 100	VF 200 100	VF 200 100	VF 200 100	VF 200 100	VF 200 100	VF 200 100	VF 200 100	VF 200 100	VF 200 100
19	Grease nipple	1	VF 500 100	VF 500 100	VF 500 100	VF 500 100	VF 500 100	VF 500 100	VF 500 100	VF 500 100	VF 500 100	VF 500 100	VF 500 100	VF 500 100
20	Coil or coil assembly (see details on pages 8 and 9)	16	not available**	VD 310 455	VD 210 120	VD 210 380	VD 310 485	VD 310 495	VD 210 130	VD 210 140	VD 310 484		VD 310 484	VD 310 435
	Copper coil (CC 270 : stage 1)	4											VD 310 435	
	Aluminium coil (CC 270 : stages 2, 3, 4)	12											VD 310 484	
21	Pressure washer	16	VB 501 430	VB 501 430	VB 501 430	VB 501 430	VB 501 470	VB 501 470	VB 501 470	VB 501 440	VB 509 770	VB 509 770	VB 509 770	VB 509 770
23	90° countersunk cap socket screw M 10 x 1.5 x 30mm (50 Nm / 37 lb-ft)	16	VF 109 100	VF 109 100	VF 109 100	VF 109 100	VF 109 100	VF 109 100	VF 109 100	VF 109 100	VF 109 100	VF 109 100	VF 109 100	VF 109 100
24	Pole shoe gearbox side axle side	16 8 8	VB 514 786	VB 514 786	VB 506 990	VB 506 990	VB 515 076* * see page 6	VB 515 076* * see page 6	VB 500 520	VB 500 530	VB 500 540	VB 500 540	VB 515 311* VB 515 312* * see page 6	VB 500 540
	Internal wiring with connecting block and junction block assemblies (see part numbers and details on pages 18/19 and 26/27)													

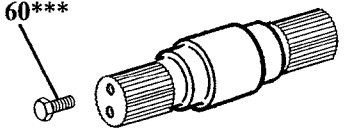
** 12 V retarder : for each damaged coil, replace 2 of the 4 coils of the failed circuit by coils for the CN69 retarder and reconnect them in serie.

24 V retarder : for each damaged coil, replace the 4 coils of the failed circuit by coils for the CN69 retarder and reconnect them according to the diagram on page 18.

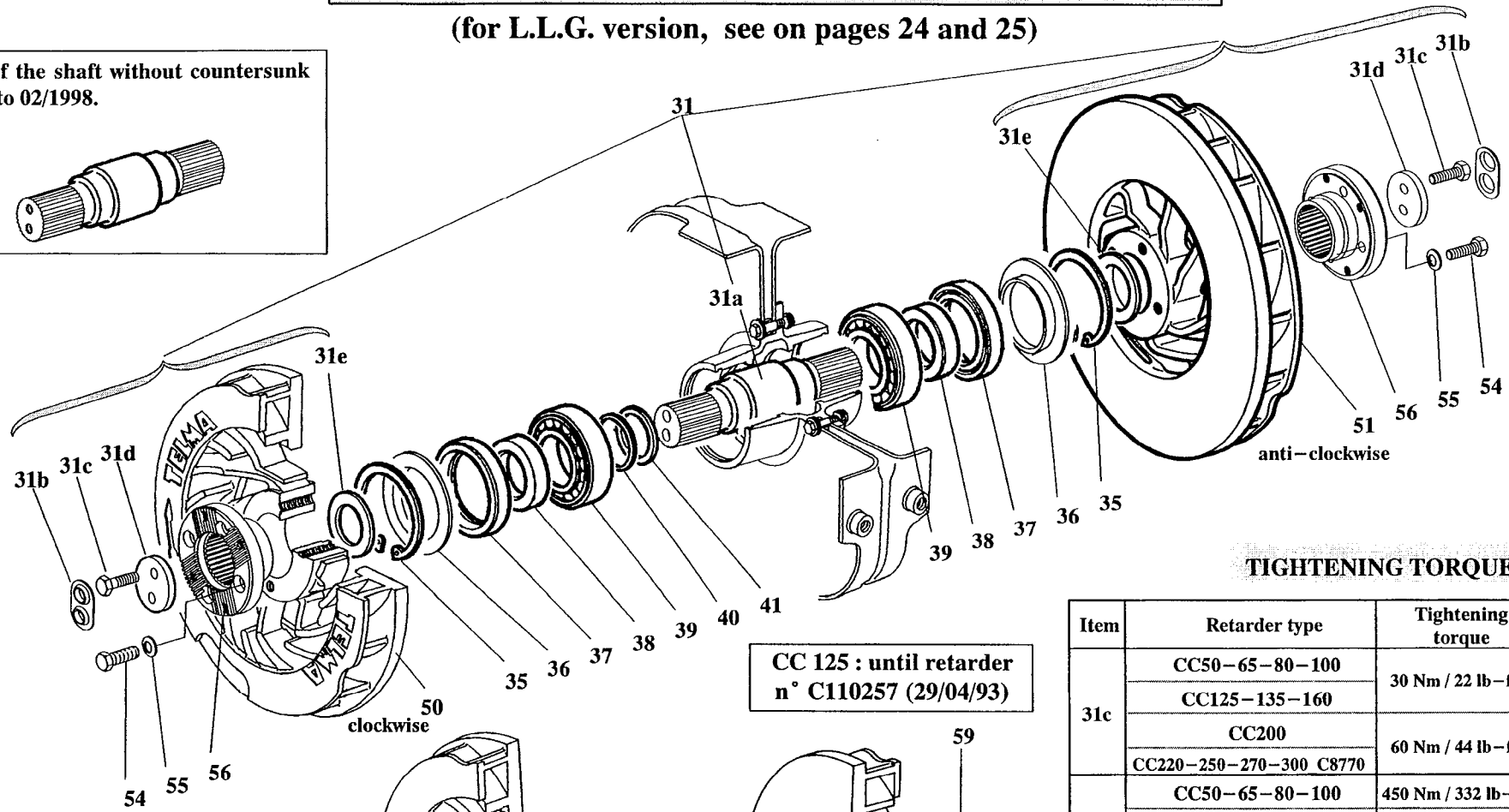
Retarder shaft assembly (standard version)

(for L.L.G. version, see on pages 24 and 25)

Variant of the shaft without countersunk holes up to 02/1998.



60***

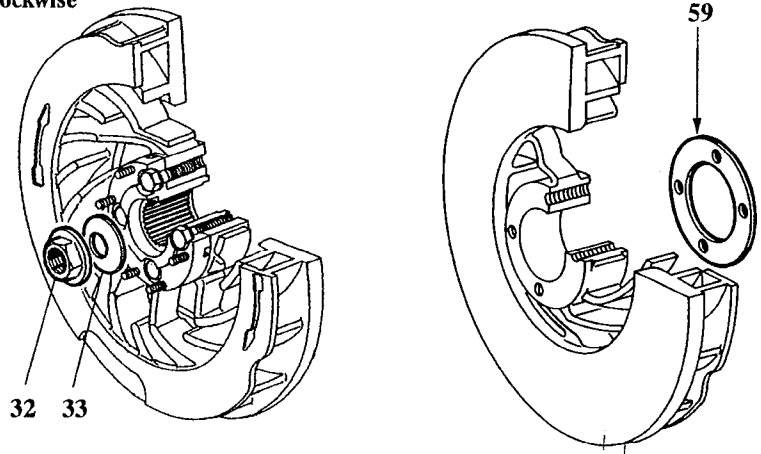


CC 125 : until retarder n° C110257 (29/04/93)

TIGHTENING TORQUES

Item	Retarder type	Tightening torque	Socket Size
31c	CC50-65-80-100	30 Nm / 22 lb-ft	17 mm
	CC125-135-160		
	CC200	60 Nm / 44 lb-ft	19 mm
	CC220-250-270-300 C8770		
32	CC50-65-80-100	450 Nm / 332 lb-ft	41 mm
	CC125-135-160	600 Nm / 442 lb-ft	46 mm
	CC200	700 Nm / 516 lb-ft	65 mm
	CC220-250-270-300-C8770		
54	CC50-65-80-100	100 Nm / 74 lb-ft	19 mm
	CC125-135-160	180 Nm / 132 lb-ft	19/21 mm
	CC200	250 Nm / 184 lb-ft	21 mm
	CC220-250-270-300-C8770		

Rotor securing with a shaft end nut, until 01/1994.
(refer to Technical Information n° 5/93 and 7/93)



RETARDER TYPE	CC 50	CC 65 CC 80 CC 100	CC 125		CC 135 CC 160	CC 200	CC 220 CC 250 C8770 CC 300	CC 270
	CN 65. CN 69.	CN... CP ... CM ...	CE 64.	CE 71. CE 72.	CE ... CF ...	CH ...	CR ... CS ... CU ... CT ...	CZ ...

Item	DESIGNATION	Qty	PART NUMBERS								
31	Shaft assembly, including :	1	VB 107 300	VB 107 301	VB 107 302	VB 107 303	VB 107 304	VB 107 306	VB 107 307	VB 107 307	
31a	shaft with countersunk holes	1	supplied under the assembly n°. item 31								
31b	tab washer	2	VB 515 160	VB 515 160	VB 515 160	VB 515 160	VB 515 160	VB 515 119	VB 515 119	VB 515 119	
31c	shaft end screw	4	VF 100 380	VF 100 380	VF 100 380	VF 100 380	VF 100 380	VF 100 500	VF 100 500	VF 100 500	
31d	plate	2	VB 515 157	VB 515 157	VB 515 158	VB 515 158	VB 515 158	VB 515 159	VB 515 159	VB 515 159	
31e	set of air-gap adjusting shims	1	VB 100 150	VB 100 150	VB 100 160	VB 100 160	VB 100 160	VB 100 170	VB 100 170	VB 100 170	
32	Shaft end nut	2	VB 510 180	VB 510 180	VB 508 450	VB 508 450	VB 508 450	VB 510 200	VB 510 200	VB 510 200	
33	Spring washer	2	VF 200 620	VF 200 620	VF 200 630	VF 200 630	VF 200 630	VF 200 650	VF 200 650	VF 200 650	
35	Snap ring for bore	2	VF 220 110	VF 220 110	VF 220 130	VF 220 130	VF 220 130	VF 220 120	VF 220 170	VF 220 170	
36	Back up washer for lip seal	2	VB 504 450	VB 504 450	VB 504 460	VB 504 460	VB 504 460	VB 504 470	VB 512 610	VB 512 610	
37	Lip seal (IE VITON type)	2	VF 400 190	VF 400 190	VF 400 200	VF 400 200	VF 400 200	VF 400 230	VF 400 130	VF 400 130	
38	Spacer ring for lip seal	2	VB 514 808		VB 501 370	VB 501 370	VB 501 370	VB 501 380	VB 501 390	VB 501 390	
	old types CB and CD : 20 mm thickness	2		VB 501 360							
	present types CN, CP and CM : 22 mm thickness	2		VB 507 100							
39	Tapered roller bearing	2	VF 310 150	VF 310 150	VF 310 130	VF 310 130	VF 310 130	VF 310 170	VF 310 160	VF 310 160	
40	Set of bearing adjusting shims										
41	Spacer ring (thickness : 4.85 mm = .19 ")	1	VB 201 920	VB 201 920	VB 201 930	VB 201 930	VB 201 930	VB 201 940	VB 201 950	VB 201 950	
50	4 or 8 hole clockwise rotor	1	VB 514 788	VB 501 810	VB 515 041**	VB 515 041**	VB 501 830	VB 501 870	VB 501 910	VB 514 838	
50	5 hole clockwise rotor (index 140)	1					VB 501 890				
51	4 or 8 hole anti-clockwise rotor	1	VB 514 789	VB 501 820	VB 515 042**	VB 515 042**	VB 501 840	VB 501 880	VB 501 920	VB 514 839	
51	5 hole anti-clockwise rotor (index 140)	1					VB 501 900				
54	Coupling flange securing screw to rotor	8/10	VF 100 540	VF 100 500	VF 100 820	VF 100 820	VF 100 800	VF 101 100	VF 101 100	VF 101 100	
55	Spring washer for flange securing screw	8/10	VF 200 600	VF 200 600	VF 200 820	VF 200 820	VF 200 820	VF 200 830	VF 200 830	VF 200 830	
56	Coupling flange	2					see on pages 12 to 17				
60	Shaft end screw ***	4	VF 100 310	VF 100 310	VF 100 310	VF 100 310	VF 100 310	VF 100 540	VF 100 540	VF 100 540	
	For coupling flange index 134										
54	Coupling flange screw (cap socket M14 x 1.5 x 60 mm)	8					VF 108 330				
55	Spring washer	8					VF 200 810				
	For coupling flange indexes 136, 137 and 169										
54	Coupling flange screw (cap socket M16 x1.5 x 75 mm)	4*						VF 108 260	VF 108 260		
54	Coupling flange screw (cap socket M16 x1.5 x 55 mm)	4*/8						VF 108 320	VF 108 320		
55	Spring washer	8						VF 200 830	VF 200 830		
59	Rotor spacer (up to retarder n° C110257)	2								VB 514 902	

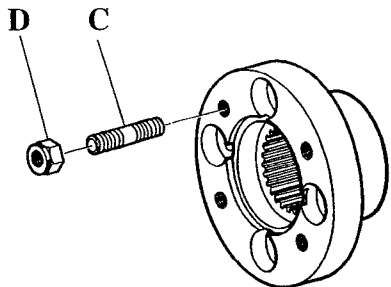
SUPERTELMACO 3 grease see page 28

* only for the indexes 136 and 137

** Spacer item 59 not required with these rotors

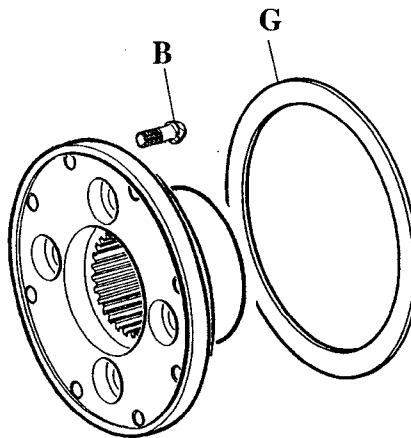
*** only for shafts without countersunk holes up to 02/1998

SAE coupling flanges with anglo-american fasteners / SCANIA coupling flanges



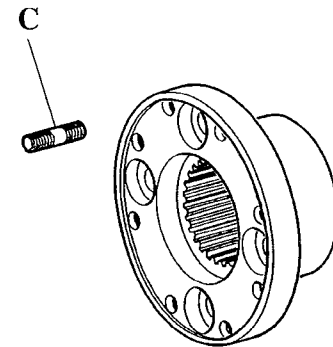
INDEXES { 151
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Fig. IX



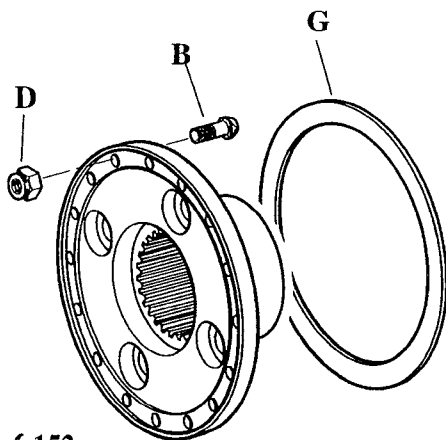
INDEXES { 152
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Fig. X



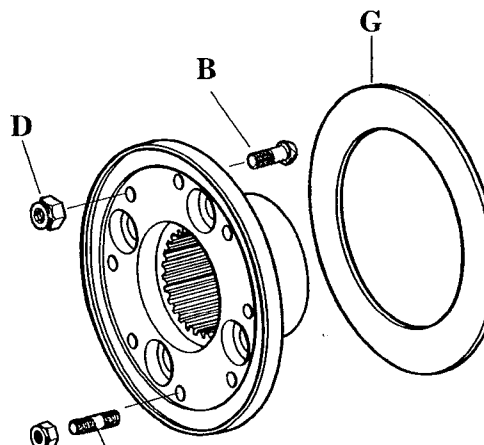
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Fig. XI



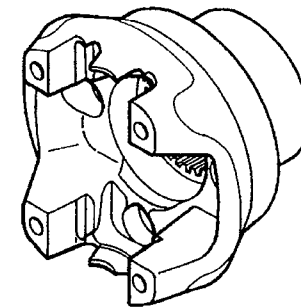
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Fig. XIII



INDEX 158

Fig. XIV



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Fig. XV

Index	Retarder type	1 flange + fasteners assembly	Fig.	Screw item B		Stud item C		Nut item D		Retaining plate item G (to be ordered separately)	
				Qty	Part number	Qty	Part number	Qty	Part number	Qty	Part number
151	CC 50 - 65 - 80 - 100	*	IX			4	VF 130 670	4	VF 120 330		
151 New Flange	CC 50	VB 107 214				4	VF 130 140	4	VF 120 330		
	CC 65 - 80 - 100	VB 107 210				4	VF 130 140	4	VF 120 330		
152	CC 135 - 160	*	X	8	VF 104 110					1	VB 503 220
	CC 170-200-220-250-270-300-C8770	*		8	VF 104 110						1
152 New Flange	CC 125	VB 107 400	XIII	8	VF 119 250					1	VB 515 030
	CC 135 - 160	VB 107 194		8	VF 119 250					1	VB 515 031
	CC 170-200-220-250-270-300-C8770	VB 107 180		8	VF 119 250					1	VB 502 830
VB 107 181		16		VF 119 250							
153	CC 135 - 160	VB 107 181									
154	CC 50 - 65 - 80 - 100	*	IX			4	VF 130 680	4	VF 120 370		
154 New Flange	CC 50	VB 107 215				4	VF 130 120	4	VF 120 370		
	CC 65 - 80 - 100	VB 107 211				4	VF 130 120	4	VF 120 370		
155	CC 50 - 65 - 80 - 100	*				4	VF 130 690	4	VF 120 340		
155 New Flange	CC 50	VB 107 216				4	VF 130 130	4	VF 120 340		
	CC 65 - 80 - 100	VB 107 212				4	VF 130 130	4	VF 120 340		
	CC 125	VB 107 203				4	VF 130 690	4	VF 120 340		
	CC 135 - 160	VB 107 399			4	VF 130 130	4	VF 120 340			
157 New Flange	CC 135 - 160	VB 107 398	XIII	12	VF 104 180			12	VF 120 370	1	VB 515 031
	CC 170-200-220-250-270-300-C8770	VB 107 182		12	VF 104 180			12	VF 120 370	1	VB 502 830
158	CC 65 - 80 - 100	*	X	8	VF 104 110						
	CC 135 - 160	*		8	VF 104 110					1	VB 503 220
	CC 170-200-220-250-270-300-C8770	*	XI			8	VF 130 600				
158 New Flange	CC 65 - 80 - 100	VB 107 213		X	8	VF 119 260					
	CC 125	VB 107 207			8	VF 119 250				1	VB 515 030
	CC 135 - 160	VB 107 195		XIV	8	VF 119 250				1	VB 515 031
CC 170-200-220-250-270-300-C8770	VB 107 179	8	VF 130 110								
136	CC 170-200-220-250-270-300-C8770	VB 107 001	XV	The strap securing screws (n° 1344182) to the coupling flanges must be provided by SCANIA. Tightening torque 105 Nm							
137	CC 170-200-220-250-270-300-C8770	VB 107 002									

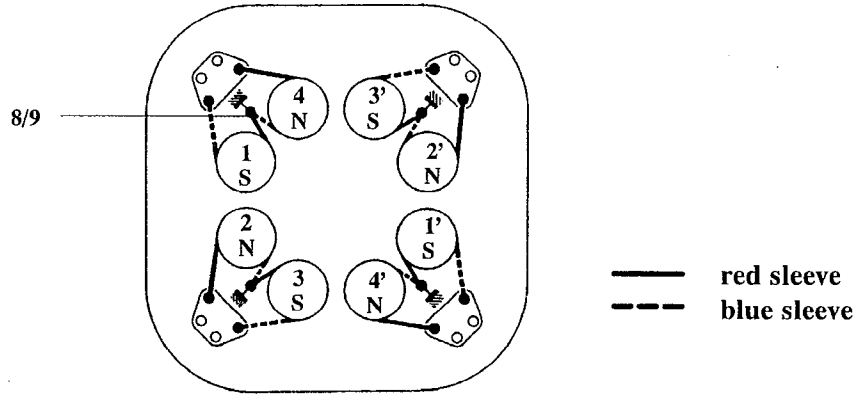
CAUTION : After degreasing the parts, the studs must be fitted to the coupling flange with LOCTITE 270.

* Not available any longer but replaced by the part number of the "new flange" (Technical Information n° 05/92).

For the replacement of the fasteners, part generation to be identified for ordering purpose (screw, stud, nut, diameter and thread).

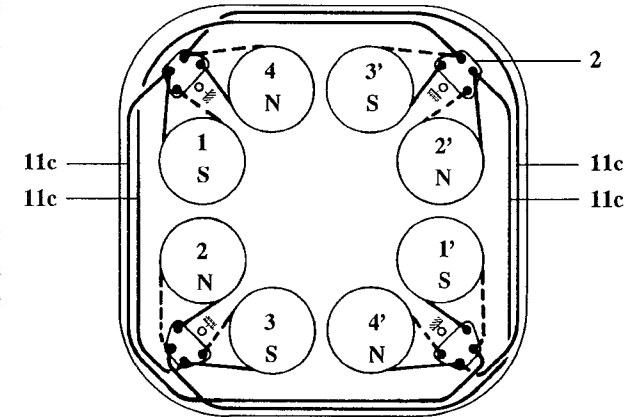
12V and 24V internal wiring diagrams – Earth on stator

12V and 24V FRONT SIDE



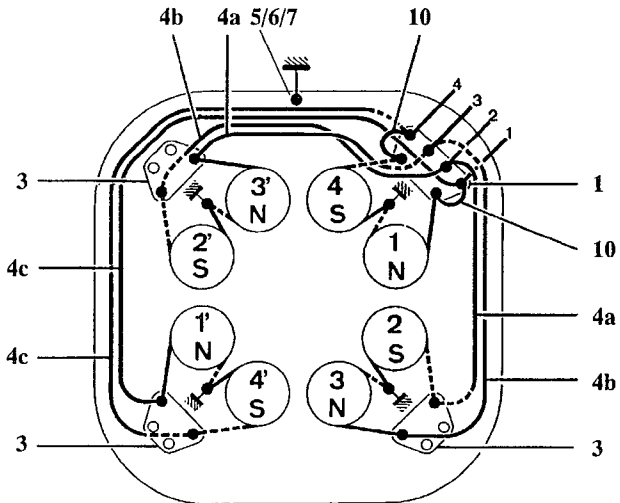
**SPECIAL 24V WIRING DIAGRAM
for CC50 – CN 692 ...**

FRONT SIDE



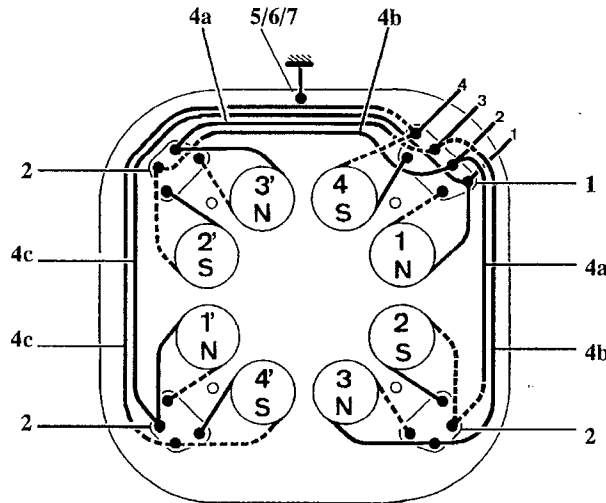
12V REAR SIDE

(side with main connecting block, item 1)



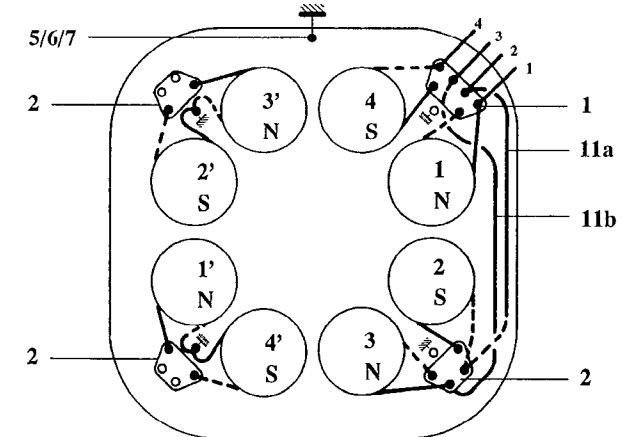
24V REAR SIDE

(side with main connecting block, item 1)



REAR SIDE

(side with main connecting block, item 1)

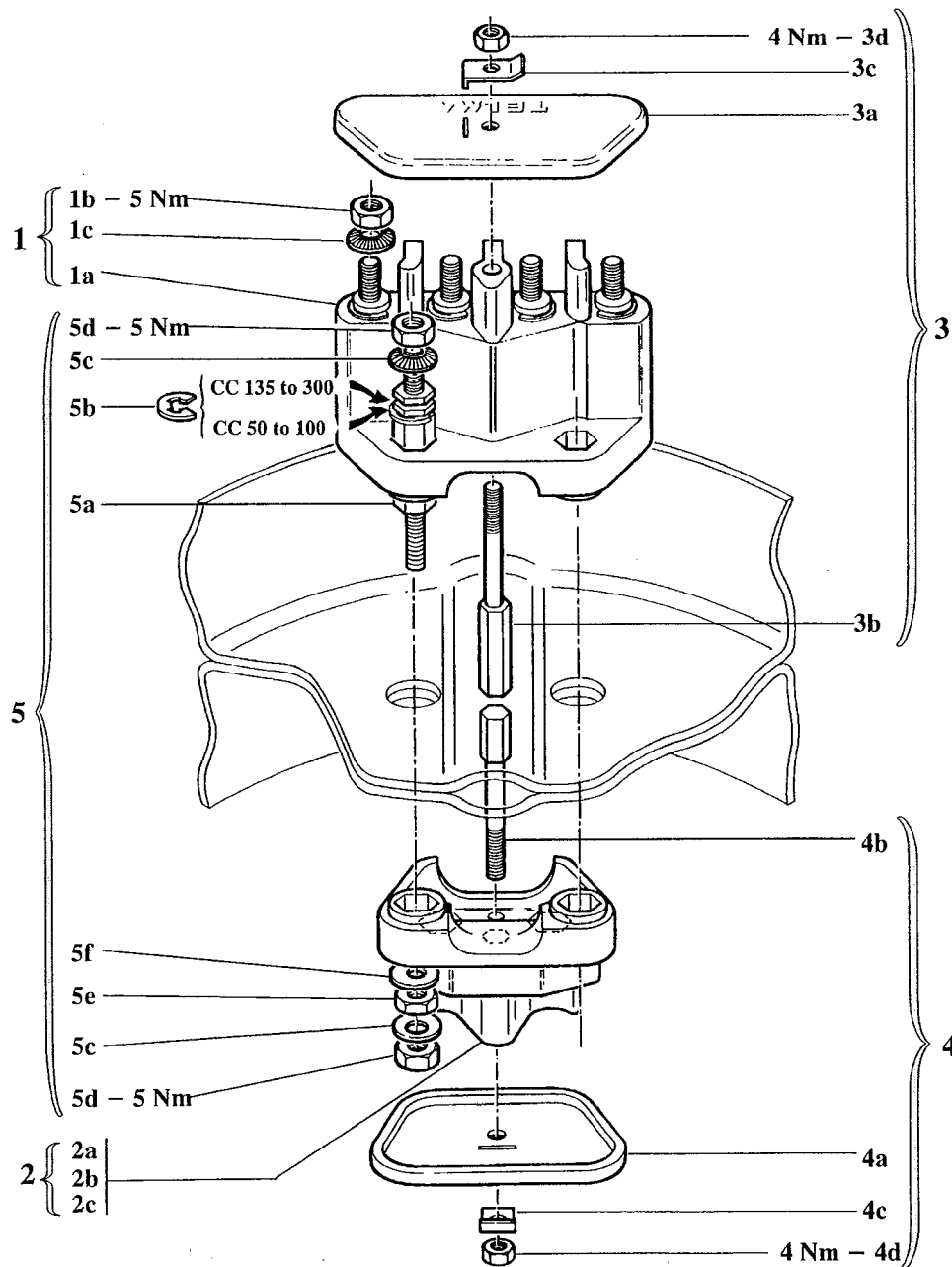


Also valid for
CC50 – CN 691 ... (12V) rear side,
front side being identical to CN 692 ... (24V)

12 V and 24 V wiring parts – Earth on stator

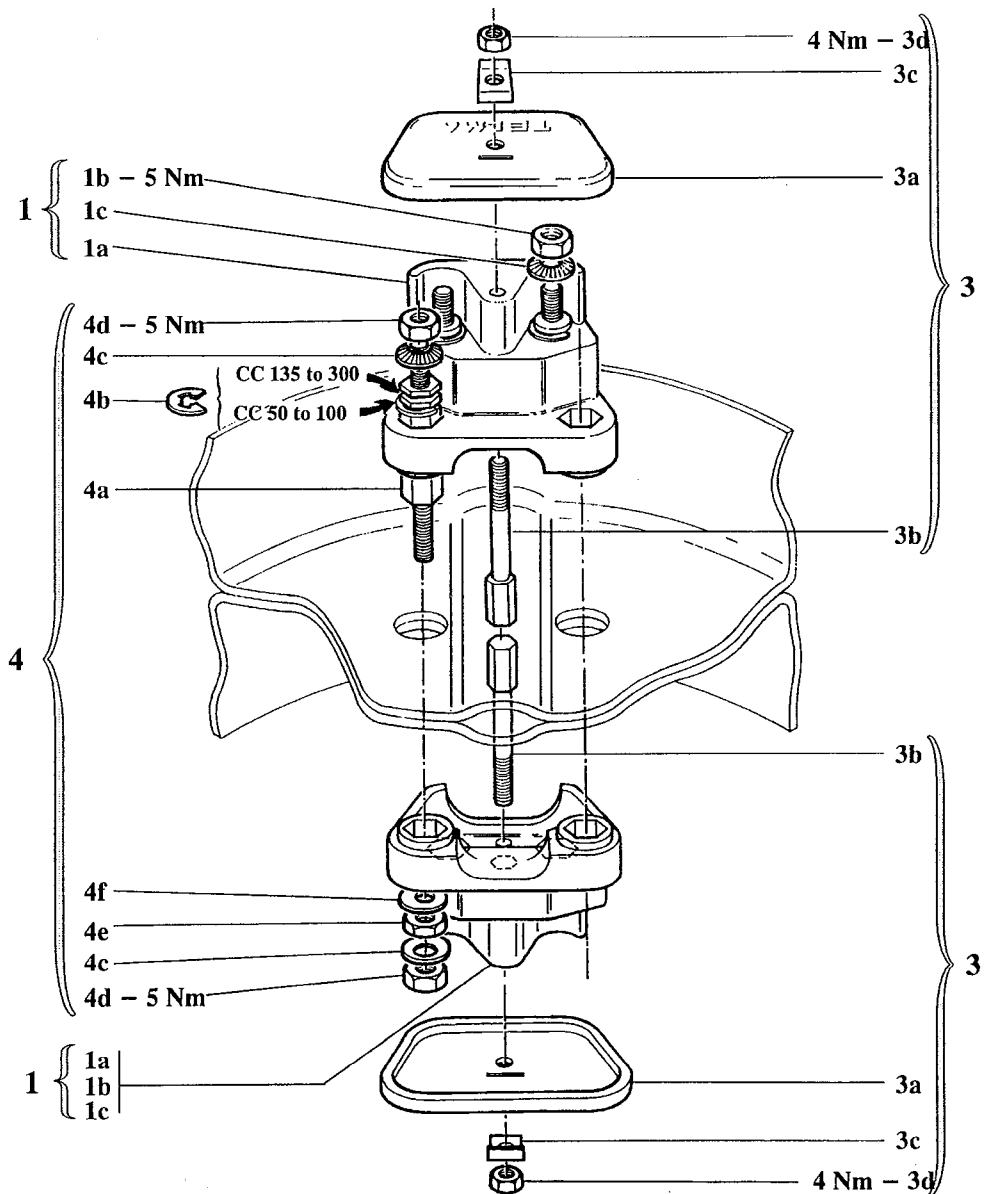
Item	Designation	Qty	CC 50 type CN692...	CC 50 type CN691... CC65 – CC 80 CC 100	CC 125 CC 135 – CC 160	CC 170 CC 200	CC 220 – CC 250 CC 270 – CC 300 C8770
1	Connecting block assembly with fasteners (see details on page 26)	1	VD 407 380	VD 407 380	VD 407 380	VD 407 380	VD 407 380
2/3	Junction block assembly with fasteners (see details on page 27)	3	VD 407 390	VD 407 390	VD 407 390	VD 407 390	VD 407 390
4	12V or 24V wiring assembly including :	1	/	VD 407 350	VD 407 340	VD 407 330	VD 407 290
4a	2 connecting wires						
4b	2 connecting wires						
4c	2 connecting wires						
5	Earth terminal	1	VG 510 331	VG 510 331	VG 510 333	VG 510 333	VG 510 333
	Set of earth fasteners including :	1	VD 407 875	VD 407 875	VD 407 875	VD 407 875	VD 407 875
6	1 contact washer Ø 8 mm						
7	1 screw M 8 L=14 mm						
8	8 screws M 6 L=8 mm						
9	8 contact washers Ø 6 mm						
10	2 shunts						
11	24V wiring assembly including :	1	VD 407 877	/	/	/	/
11a	1 connecting wire						
11b	1 connecting wire						
11c	4 connecting wires						

Connecting block assembly – VD 407 380



Item	Designation	Qty	Part number
	Connecting block assembly including items 1 to 5 :	1	VD 407 380
1	Large connecting block assembly (4 insulated terminals), including :	1	
1a	1 large connecting block (4 insulated terminals)		
1b	4 M6 nuts		
1c	4 contact washers Ø 6		
2	Small connecting block assembly (2 insulated terminals), including :	1	
2a	1 small connecting block (2 insulated terminals)		
2b	2 M6 nuts		
2c	2 contact washers Ø 6		
3	Large cover assembly with fasteners including :	1	VD 407 220
3a	1 large cover		
3b	1 lid securing screw		
3c	1 locking plate		
3d	1 M5 nut		
4	Small cover assembly with fasteners including :	1	VD 407 230
4a	1 small cover		
4b	1 lid securing screw		
4c	1 locking plate		
4d	1 M5 nut		
5	Set of double terminals with fasteners including :	1	
5a	2 double terminals		
5b	2 snap-rings		
5c	4 contact washers Ø 6		
5d	4 M6 nuts		
5e	2 M6 nuts		
5f	2 MN 6 washers		

Junction block assembly – VD 407 390



Item	Designation	Qty	Part number
	Junction block assembly including :	3	VD 407 390
1	Small junction block assemblies (2 insulated terminals), each including :	2	
1a	1 small junction block (2 insulated terminals)		
1b	2 M6 nuts		
1c	2 contact washers Ø 6		
3	Small cover assembly with fasteners including :	2	VD 407 230
3a	1 small cover		
3b	1 lid securing screw		
3c	1 locking plate		
3d	1 M5 nut		
4	Set of double terminals with fasteners including :	1	
4a	2 double terminals		
4b	2 snap-rings		
4c	4 contact washers Ø 6		
4d	4 M6 nuts		
4e	2 M6 nuts		
4f	2 MN 6 washers		